Bench Mark:
A Chiseled Square on The SE wingwall of existing S.N. 006-0078 - Elevation 716.08

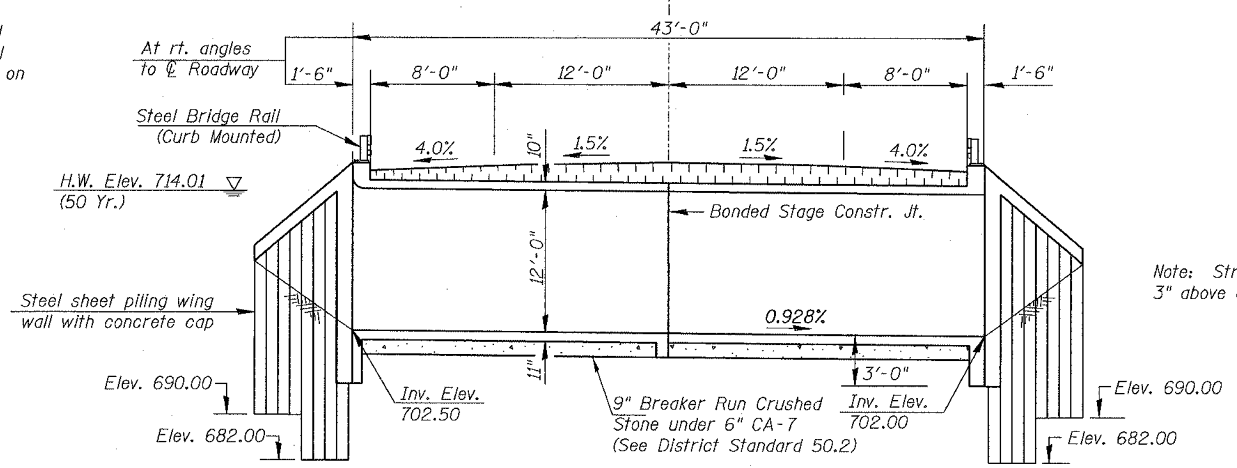
Existing Structure:
The existing structure is a single span reinforced concrete slab bridge on closed abutments restrained top and bottom. The abutments have diagonal wings and the footings are founded on untreated timber piles. Existing structure no. 006-0078.

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

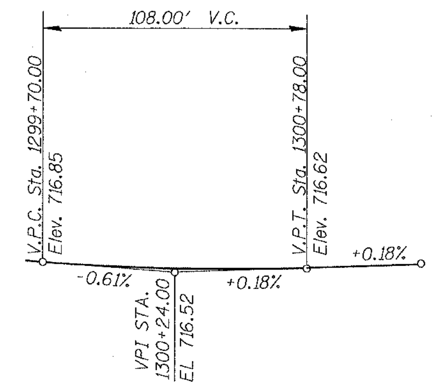
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 316	115 (BR-1)	BUREAU	28	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
12 SHEETS
64424



LONGITUDINAL SECTION
(Looking South)

Note: Stream flow line is 3" above culvert invert.



PROFILE GRADE
IL Route 26
Along ℄ Roadway

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

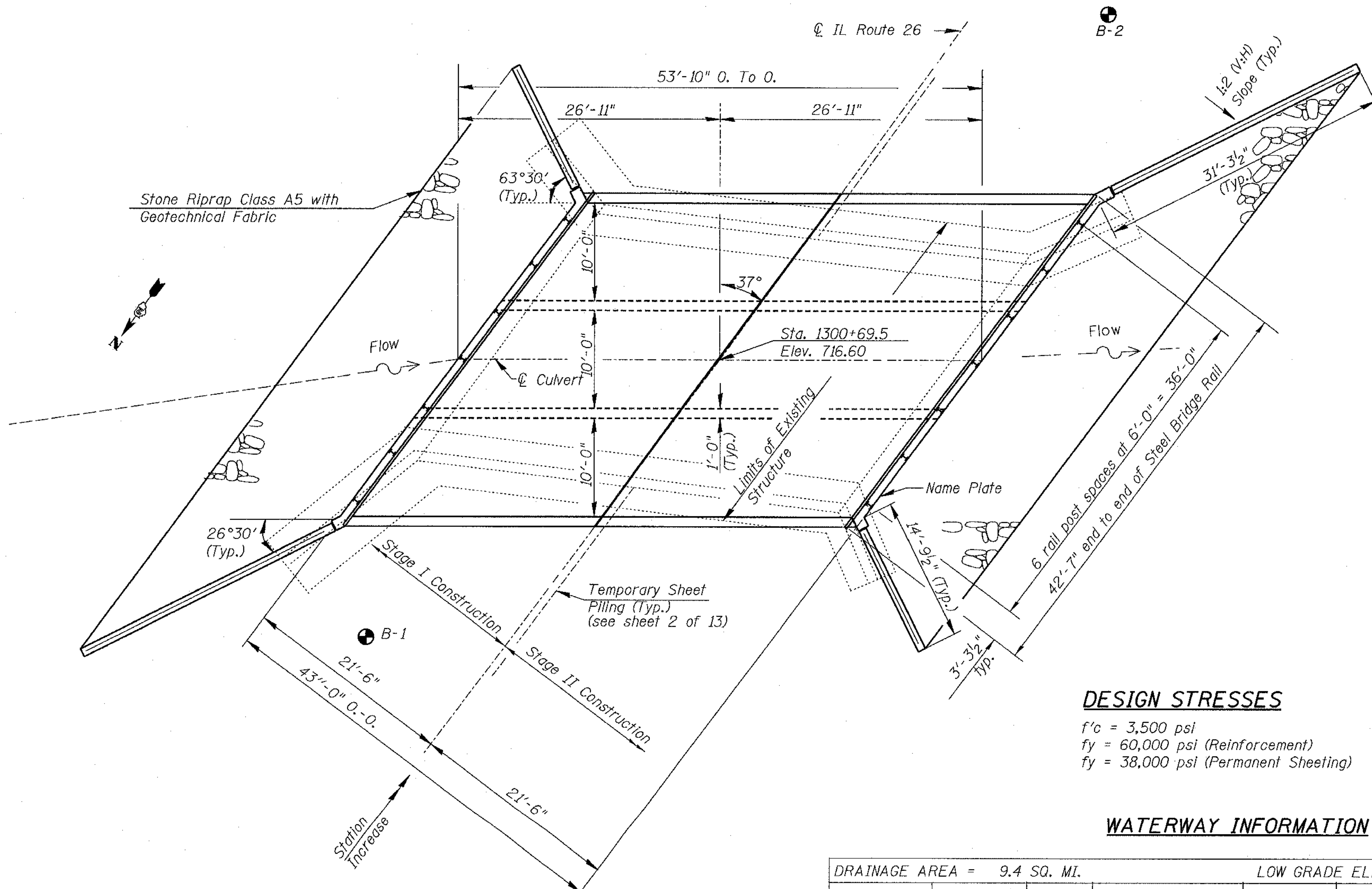
Precast alternate is not allowed.

Exposed edges shall have a ¾" chamfer unless otherwise noted.

Excavate behind the existing abutments before removing the existing superstructure and after driving temporary sheet piling.

For backfilling and embankment, see Standard Specifications.

Saw cut existing abutment at the stage removal line.

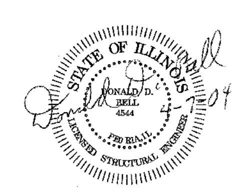


PLAN

STATION 1300 + 69.50
BUILT 20__ BY
STATE OF ILLINOIS
F.A. RTE 316 SEC. 115 (BR-1)
LOADING HS-20
STR. NO. 006-2017

NAME PLATE DETAIL
See Std. 515001

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES: 11/30/04

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	-	-	1
Concrete Box Culverts	Cu. Yd.	246.2	-	246.2
Reinforcement Bars	Pound	68,300	-	68,300
Name Plates	Each	1	-	1
Stone Riprap, Class A5	Sq. Yd.	-	180	180
Filter Fabric for use with Riprap	Sq. Yd.	-	180	180
Temporary Sheet Piling	Sq. Ft.	-	1451	1451
Permanent Steel Sheet Piling	Sq. Ft.	-	2314	2314
Bar Splicers	Each	268	-	268
Steel Bridge Rail	Foot	85	-	85
Reinforcement Bars (Epoxy Coated)	Pound	1,610	-	1,610
Trench Backfill	Cu. Yd.		115	115
Breaker Run Crushed Stone	Ton		107	107

LOADING HS20-44
Allow 50 lb/sq. ft for future wearing surface

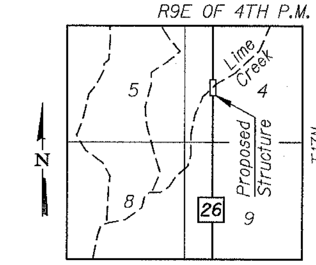
DESIGN STRESSES
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,000 psi (Permanent Sheeting)

DESIGN SPECIFICATIONS
1996 AASHTO "Standard Specifications for Highway Bridges", and Interims Through 2002

WATERWAY INFORMATION

DRAINAGE AREA = 9.4 SQ. MI. LOW GRADE ELE. (FT) = 716.33

FLOOD	FREQUENCY (YEAR)	Q (C.F.S)	OPENING (SQ. FT.) EXIST.	OPENING (SQ. FT.) PROP.	NAT. H.W. ELEV. (FT.)	HEAD (FT.) EXIST.	HEAD (FT.) PROP.	HDWATER ELE. (FT.) EXIST.	HDWATER ELE. (FT.) PROP.
DESIGN	50	2419	265.2	345.3	714.01	1.49	0.58	715.50	714.59
BASE	100	2773	265.2	352.8	714.26	2.23	0.83	716.49	715.09
EXIST. OVERTOP	100	2773	265.2		714.26	2.23		716.49	
PROP. OVERTOP	±170	3120		360.0	714.35		1.96		716.31



LOCATION SKETCH

GENERAL PLAN
IL RTE 26 OVER LIME CREEK
F.A. RTE 316 SECTION 115 (BR-1)
BUREAU COUNTY
STATION 1300+69.5
S.N. 006-2017

DESIGNED JFJ	RANDOLPH & ASSOCIATES, INC. 911 N. PIONEER PARKWAY, PEORIA, IL 61615-2124 TEL. 309-693-9844 FAX. 309-693-6856 1-888-831-9221 HTTP://WWW.RANDOLPHINC.COM CONSULTING ENGINEERS • LAND SURVEYORS	FILE NUMBER 136.101	
CHECKED DDB			
DRAWN HS		DATE April 2003	
CHECKED JFJ			

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